

- 8 -

Patent claims

1. An electronic organic component comprising at least two functional layers adjacent to one another, the first functional layer being produced from the same organic material as the second and adjacent functional layer but differing at least partly therefrom in its electrical physical properties (such as, for example, the conductivity).
2. The electronic organic component as claimed in claim 1, in which the semiconductive functional layer and the conductive functional layer(s) differ only in their redox potential.
3. A method for the production of an organic electronic component, in which two different functional layers are produced in a single process step by converting a part of the functional layer into another modification of the material by partial reaction.
4. The method as claimed in claim 3, in which electrodes and/or conductor tracks and semiconductive functional layer are produced with structuring in one process step and in one functional layer.
5. The method as claimed in claim 3 or 4, in which a conductive structure was introduced in a controlled manner into the semiconductive functional layer by partial covering and treatment of the uncovered regions with a redox composition.
6. The method as claimed in any of the above claims 3 to 5, in which the semiconductive layer is covered by means of a photoresist.

- 9 -

7. The method as claimed in any of the above claims 3 to 6, in which the redox composition is partially applied to the semiconductive functional layer by printing, including inkjet printing.
- 5
8. The method as claimed in any of the above claims 3 to 7, in which a time-stable partial oxidation of the semiconductive functional layer is carried out by means of an oxidizing agent.